WHAT IS CLAIMED IS:

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1. A synchronous vehicle detector system comprising;

a plurality of vehicle det ctors each having least one vehicle loop to which that detector can be intermittently couple for vehicle sampling purposes; and

means for synchronizing the operation of said plurality of vehicle detectors.

- 2. The invention of claim 1 wherein said means for synchronizing comprises circuitry incorporated in said vehicle detectors for enabling one of said vehicle detectors to control the synchronous operation of said plurality of vehicle detectors.
- 3. The invention of claim 1 wherein said vehicle detector system is configured for series synchronization.

4. The invention of claim 1 wherein said vehicle detector system is configured for parallel synchronization.

- 5. A method of controlling the operation of a plurality of vehicle detectors in a synchronous manner, said method comprising the steps of:
 - (a) assigning one of said detectors the role of master detector; and
 - (b) operating the remaining number of vehicle detectors as slave detectors to the master.
 - 6. The method of claim 5 wherein said step (b) is performed in series synchronization.
 - 7. The method of claim 5 wherein said step (b) is performed in parall 1 synchronization.